

WHAT IS CLAIMED IS:

1. A communication and control system, comprising:
a command device generating a command signal;
an input device generating a data signal;
a first device receiving the command and data signals,
the first device generating a transmission signal including
the command and data signals;
a second device receiving the transmission signal and
extracting the command signal and the data signal from the
transmission signal;
at least one target device being controlled as a function
of the command signal; and
an output device receiving the data signal.
2. The system according to claim 1, wherein the data signal
includes at least one of a video signal, an audio signal and
an information signal.
3. The system according to claim 1, wherein the output
device includes at least one of a television set, a display
device, an audio device and a data processor.
4. The system according to claim 1, wherein the at least one
target device includes at least one of a light control device,
a climate control device, a computer, a printer, a display
device, an audio system, a telephone, a television set, a toy,
a motorized device, a controllable device, a home appliance
control device.
5. The system according to claim 1, further comprising:
a network arrangement facilitating a transmission of the
transmission signal from the first device to the second
device.

6. The system according to claim 5, wherein the network arrangement includes at least one of a television broadcast system, a communication network, a satellite network, a cable network and a telephone network.

Suba2 > 7. The system according to claim 1, wherein the transmission signal is in one of an analog format and a digital format.

8. The system according to claim 7, wherein if the transmission signal is in the analog format, the command signal is inserted by the first device into a predetermined portion of the data signal and the command signal is extracted by the second device from the predetermined portion.

9. The system according to claim 8, wherein the predetermined portion is a vertical blanking intervals portion.

10. The system according to claim 7, wherein if the transmission signal is in the digital format, the command signal is attached to a data packet of the transmission signal by the first device, the data packet including the data signal, and the command signal is extracted from the data packet using the second device.

11. The system according to claim 7, wherein if the transmission signal is in the digital format, the command signal is transmitted using a command packet by the first device, the command packet corresponding to a data packet including the data signal, and the command signal is extracted from the command packet using the second device.

12. The system according to claim 1, wherein at least one of the second device and the at least one target device is controlled as a function of the command signal.

Sub 93
Cont

13. A generating device of a system for providing a transmission signal, the system controlling at least one target device, comprising:

a command receiver receiving a command signal for use in controlling the at least one target device, the command signal being received from a command device;

a command coder converting the command signal into a first signal, the command coder being coupled to the command receiver;

a data receiver receiving a data signal from an input device; and

a data coder converting the data signal into a second signal, the data coder being coupled to the data receiver;

a modulator coupled to the command and data coders and generating the transmission signal using the first and second signals; and

a transmitter coupled to the modulator and transmitting the transmission signal.

14. The generating device according to claim 13, wherein the at least one target device is controlled as a function of the control signal.

15. The generating device according to claim 13, further comprising:

a controller facilitating generation of the transmission signal; and

a memory unit coupled to the controller and storing the transmission signal.

Sub 94
Cont

16. A control device of a system, the system controlling at least one target device, comprising:

a receiver receiving a transmission signal;

a demodulator extracting a first signal from the transmission signal;

A4
cancel

a command decoder decoding the first signal into the command signal,

wherein the at least one target device is controlled as a function of the command signal.

17. The control device according to claim 16, further comprising:

a data decoder decoding a data signal from a second signal, the second signal being extracted from the transmission signal using the demodulator; and

a data transmitter receiving the data signal and providing the data signal to an output device.

18. The control device according to claim 16, further comprising:

a command dispatcher providing the command signal to a corresponding target device.

19. The control device according to claim 16, further comprising:

a controller generating a control signal using the command signal to control the at least one target device; and

a memory unit coupled to the controller and storing the command signal.

20. The control device according to claim 19, further comprising:

a filtering device coupled to the controller, the filtering device controlling and selecting the command signal as a function of predetermined variables.

21. The control device according to claim 20, wherein the filtering device is implemented as a software application, the software application being stored in the memory unit.

22. The control device according to claim 20, wherein the predetermined variables are adjusted according to a predetermined procedure.

23. The control device according to claim 16, wherein the command transmitter provides the command signal to the output device.

24. The control device according to claim 20, further comprising:

a transmitting device transmitting a data to a predetermined device, the data being provided by at least one of the filtering device and the at least one target device.

25. The control device according to claim 24, wherein the transmitting device includes a modem.

26. The control device according to claim 19, wherein the predetermined variables include a profile of a user.

SUBAS
27. A method for controlling at least one target device, comprising:

(a) providing a command signal and a data signal to a first device;

(b) converting the command and data signals to a transmission signal using the first device;

(c) transmitting the transmission signal to a second device;

(d) extracting the command signal from the transmission signal using the second device; and

(e) controlling the at least one target device as a function of the command signal.

28. The method according to claim 27, further comprising the steps of:

(f) extracting the data signal from the transmission signal using the second device; and

(g) providing the data signal to an output device.

29. The method according to claim 27, further comprising the step of:

(h) controlling at least one of the second device and the output device as a function of the command signal.

30. The method according to claim 27, further comprising the step of:

(i) controlling the command signal as a function of predetermined variables using a filtering device.

31. The method according to claim 27, wherein the step (b) includes a substep of inserting the command signal into a vertical blanking interval portion of the data signal and wherein the step (d) includes a substep of extracting the command signal from the vertical blanking interval portion.

32. The method according to claim 31, wherein the command signal is transmitted using one of an in-band procedure and an out-of-band procedure.

33. The method according to claim 27, wherein the step (b) includes a substep of attaching the command signal to a data packet of the transmission signal and wherein the step (d) includes a substep of extracting the command signal from the data packet, the data packet including the data signal.

Sub 26
Cont 34. A method for controlling at least one target device, comprising:

(a) obtaining a first address and a second address from a first device;

(b) providing the first and second addresses to a command device;

Ab
canal

(c) providing a message, located at the first address to the first device using the command device, the message including the second address;

(d) transmitting the message, located at the first address, to a second device;

(e) extracting the second address from the message using the second device;

(f) storing the second address using a memory unit;

(g) providing a command signal and a data signal to the first device;

(h) transmitting the command signal, located at the second address, to the second device; and

(i) controlling the at least one target device using the command signal.

35. The method according to claim 34, wherein the message includes a predetermined data of the command and data signals.

36. The method according to claim 35, wherein the at least one target device selects the command signal as a function of the predetermined data.

37. The method according to claim 34, further comprising the steps of:

(j) transmitting the data signal to the second device; and

(k) providing the data signal to an output device by the second device.

Suban
canal

38. A computer-readable storage medium storing a set of instructions, the set of instructions capable of being executed by a processor to implement a control operation of at least one target device on at least one computer system, the method comprising:

(a) providing a command signal and a data signal to a first device;

- am
concl
- (b) converting the command and data signals to a transmission signal using the first device;
 - (c) transmitting the transmission signal to a second device;
 - (d) extracting the command signal from the transmission signal using the second device; and
 - (e) controlling the at least one target device as a function of the command signal.

39. A communication and control system, comprising:
a command device generating a command signal;
a first device receiving the command signal, the first device generating a transmission signal including the command signal;
a second device receiving the transmission signal and extracting the command signal from the transmission signal;
and
at least one target device being controlled as a function of the command signal.
40. The system according to claim 39, further comprising:
an input device generating a data signal, the data signal being provided to the first device which includes the data signal into the transmission signal; and
an output device receiving the data signal from the second device which extracts the data signal from the transmission signal.
- ADD a 8